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- (71) Applicant: SRI INTERNATIONAL [US/US]; 333 Ravenswood Avenue, Menlo Park, CA 94025 (US).
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- (72) Inventor: NIGAM, Asutosh; 4506 Amiens Avenue, Fremont, CA 94555 (US).
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(54) Title: METHOD AND COMPOSITION FOR TEXTILE PRINTING

(57) Abstract: The present invention features novel methods and compositions for treating textile substrates to improve the quality of images printed thereon. The method comprises applying to a textile substrate a coating composition composed of a coating agent selected from one of (a) an azetidinium polymer; (b) a guanidine polymer; (c) a mixture of an azetidinium and a guanidine polymer; and (d) a copolymer of an azetidinium monomer and a guanidine monomer. Textile substrates treated using the methods and compositions of the invention provide high quality printed images when printed with an ink containing a reactive dye having ionizable and/or nucleophilic groups capable of reacting with the coating agent in the textile coating composition. Image printed on a textile substrate treated using the methods and compositions of the invention are bleed-resistant, water-resistant (e.g. water-fast), detergent-resistant (e.g. detergent-fast), and/or are characterized by an enhanced chroma and hue.

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